Elektronische Bauelemente

P10A05G ~ P10A10G

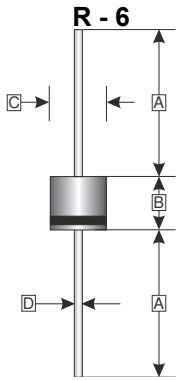
Voltage 50 ~ 1000 V

10.0 Amp General Purpose Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- The plastic material carries UL recognition 94V-0



REF.	Millimeter	
	Min.	Max.
A	25.4 REF	
B	8.6	9.1
C	8.6	9.1
D	1.2	1.32

MECHANICAL DATA

- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode end
- Mounting position: Any

ORDER INFORMATION

Part Number	Type
P10A05G~P10A10G	Lead (Pb)-free
P10A05G-C~P10A10G-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%)

Parameter		Symbol	Part Number							Unit
			P10A05G	P10A1G	P10A2G	P10A4G	P10A6G	P10A8G	P10A10G	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		$I_{(AV)}$	10							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I_{FSM}	600							A
Maximum Forward Voltage@ I_F=10A		V_F	1							V
Maximum DC Reverse Current at rated DC blocking voltage	T_J=25°C	I_R	10							μA
	T_J=100°C		100							
Typical Junction Capacitance [1]		C_J	150							pF
Typical Thermal Resistance		$R_{\theta JA}$	10							°C/W
Operating and Storage Temperature Range		T_J,T_{STG}	150,-55~150							°C

Note:
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

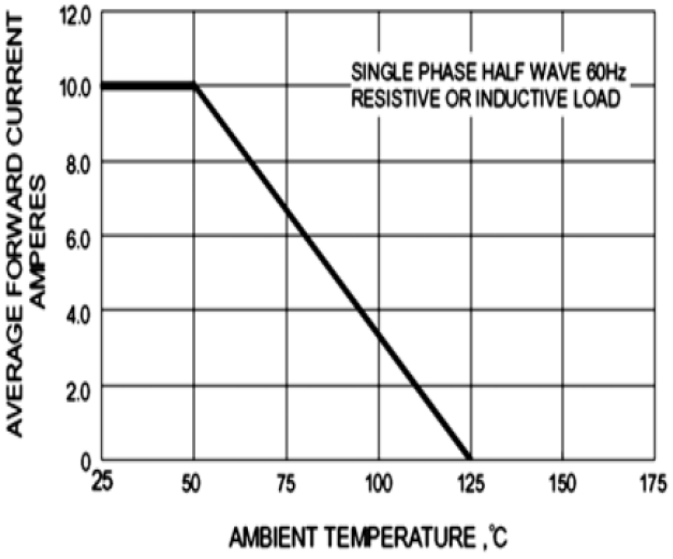

FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

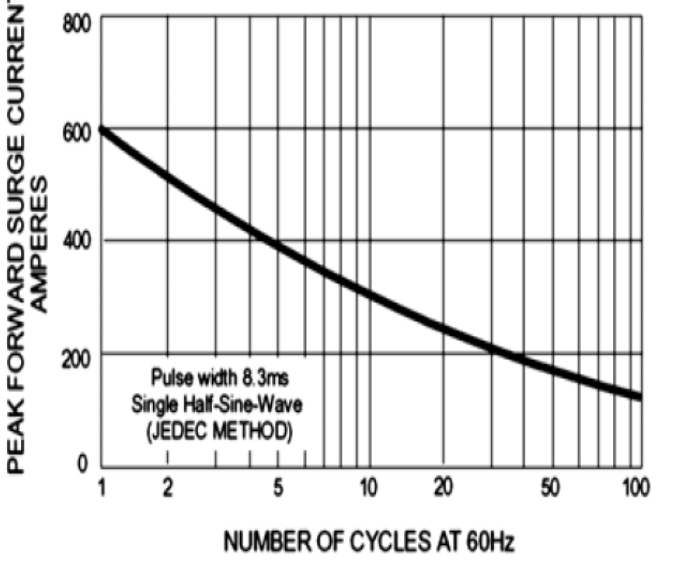

FIG.3 - TYPICAL JUNCTION CAPACITANCE

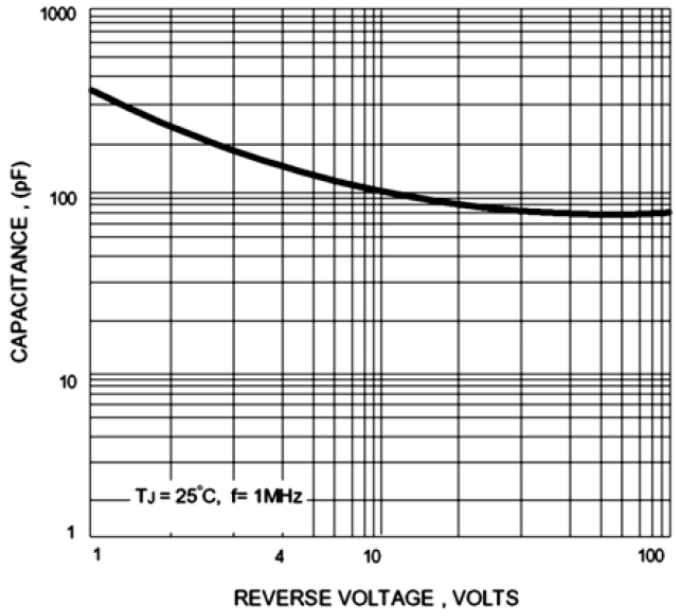

FIG.4 - TYPICAL FORWARD CHARACTERISTICS